

TX station: 4xBkk2-h-90

Gain solid integration : disabled

Site Name: Labelitaly

General data of Antenna System

TX station	4xBkk2-h-90
Site Name	Labelitaly
System of coordinates	Geographic
Longitude	00°00'00.000"
Latitude	00°00'00.000"
Ground level a.s.l. (m)	100.0
Antenna system height (m)	50.0
Transmitter power(Watt)	1000.000
Carrier wave frequency (MHz)	200.000
Antenna system central frequency (MHz)	200.000
Antenna base diagrams type 1	LABEL ITALY-BKK_2V PANEL VHF WB
Antenna base diagrams type 2	-
Polarization (H/V/C/X)	H
Transmitting cable attenuation (dB)	0.0
Additional attenuations(dB)	0.0
Base diagrams sectors (T = All, F = Front)	T
Velocity factor of cables to Antennas (0÷1)	0.88
Coordinate System(C = cartesian, P = polar)	P
Mast side / diameter(cm):	100.0
Mast cross section (T/Q/C)	Q
Structure rotation w.r.t. North (°)	0.0
Mast rotation w.r.t. North (°)	45.0

Information about antennas used in the System

	<i>Antenna type 1</i>
Manufacturer	LABEL ITALY
Antenna model	BKK_2V PANEL VHF WB
Band start(MHz)	174
Band stop(MHz)	225
diagrams Frequency(MHz)	200
Polariz (H,V,C,X)	V
Vertical dist (cm)	150
Height (cm)	87
Width (cm)	125
Thickness (cm)	40
Weight (Kg)	25
Maximum power (KW)	2
Gain (dBd)	7.5
North E.C. (cm)	0
East E.C. (cm)	0
Return loss (dB)	24
R.C.Phase (°)	0

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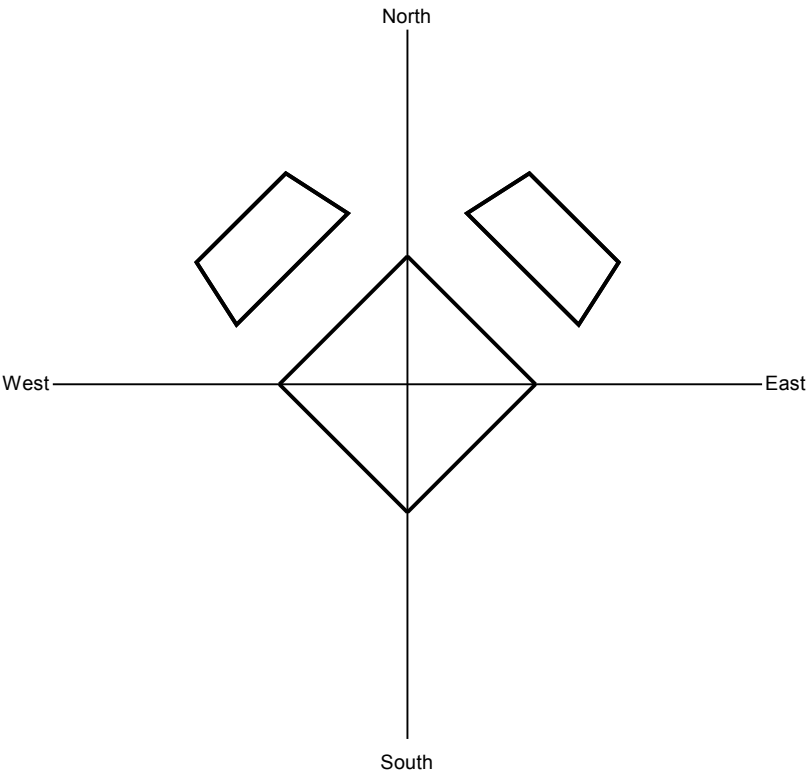
Geometr. and electrical data of Antenna System

	<i>Power</i> (%)	<i>Tilt</i> (°)	<i>Az.</i> (°/N)	<i>Phase</i> (°)		<i>V dist.</i> (m)	<i>Scr-d</i> (cm)	<i>Scr-Az</i> (°/N)	<i>Rot.</i> (1÷4)	<i>Type</i> (1÷2)	<i>L cables</i> (cm)	<i>Car. phase</i> (°)
1	25.000	0	315	0	+0.0	1.50	90.0	315.0	2	1	0.0	0.0
2	25.000	0	315	0	+0.0	0.00	90.0	315.0	2	1	0.0	0.0
3	25.000	0	45	0	+0.0	1.50	90.0	45.0	2	1	0.0	0.0
4	25.000	0	45	0	+0.0	0.00	90.0	45.0	2	1	0.0	0.0

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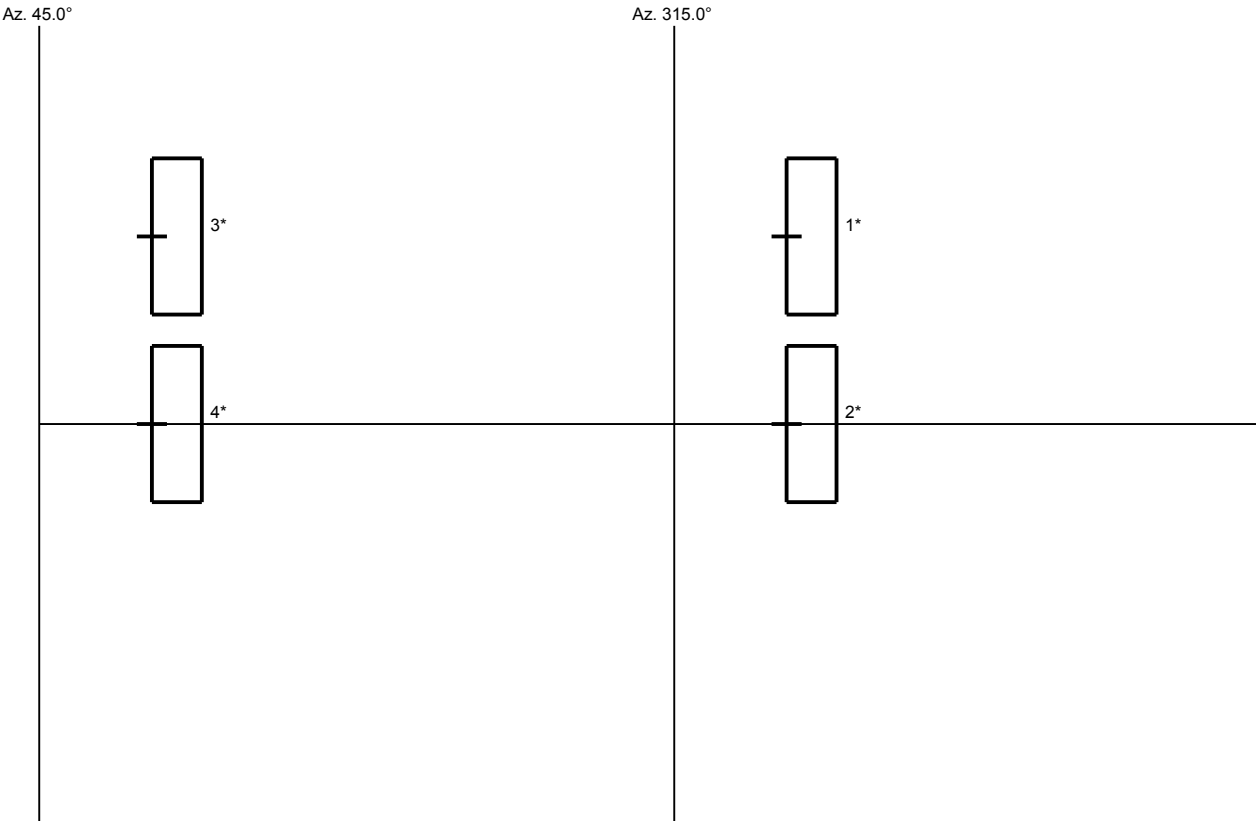
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Plan of antenna system



Side of antenna system

* = rotated antenna



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Antennas arrays data

A. Antennas array azimuth (°/N)	45	315
B. Number of antennas	2	2
C. Nominal power supply (W)	500.00	500.00
D. Losses (addit. + cables) (dB)	0.0	0.0
E. Effective power supply (W)	500.00	500.00
F. Theor. maximum gain (dBd)	10.51	10.51
G. Distribution losses (dB)	0.00	0.00
H. Nominal max gain [F - G] (dBd)	10.51	10.51
I. Compensation losses (dB)	0.00	0.00
J. Effec. max gain [H - I] (dBd)	10.51	10.51
K. Effec. max gain (times)	11.25	11.25
L. Effec. max power [E * K] (KW)	5.6234	5.6234
M. Max power depr. angle (°)	0.0	0.0
N. Max power az. angle (°)	45	315

Diagram in dBK calculated at horizon

Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK	Az. (°/N)	dBK
0	8.7	90	3.5	180	-8.0	270	3.5
10	7.7	100	0.5	190	-9.1	280	5.4
20	5.8	110	-3.4	200	-11.5	290	6.5
30	5.7	120	-8.3	210	-12.5	300	7.0
40	6.9	130	-12.5	220	-12.5	310	7.2
50	7.2	140	-12.5	230	-12.5	320	6.9
60	7.0	150	-12.5	240	-8.3	330	5.7
70	6.5	160	-11.5	250	-3.4	340	5.8
80	5.4	170	-9.1	260	0.5	350	7.7

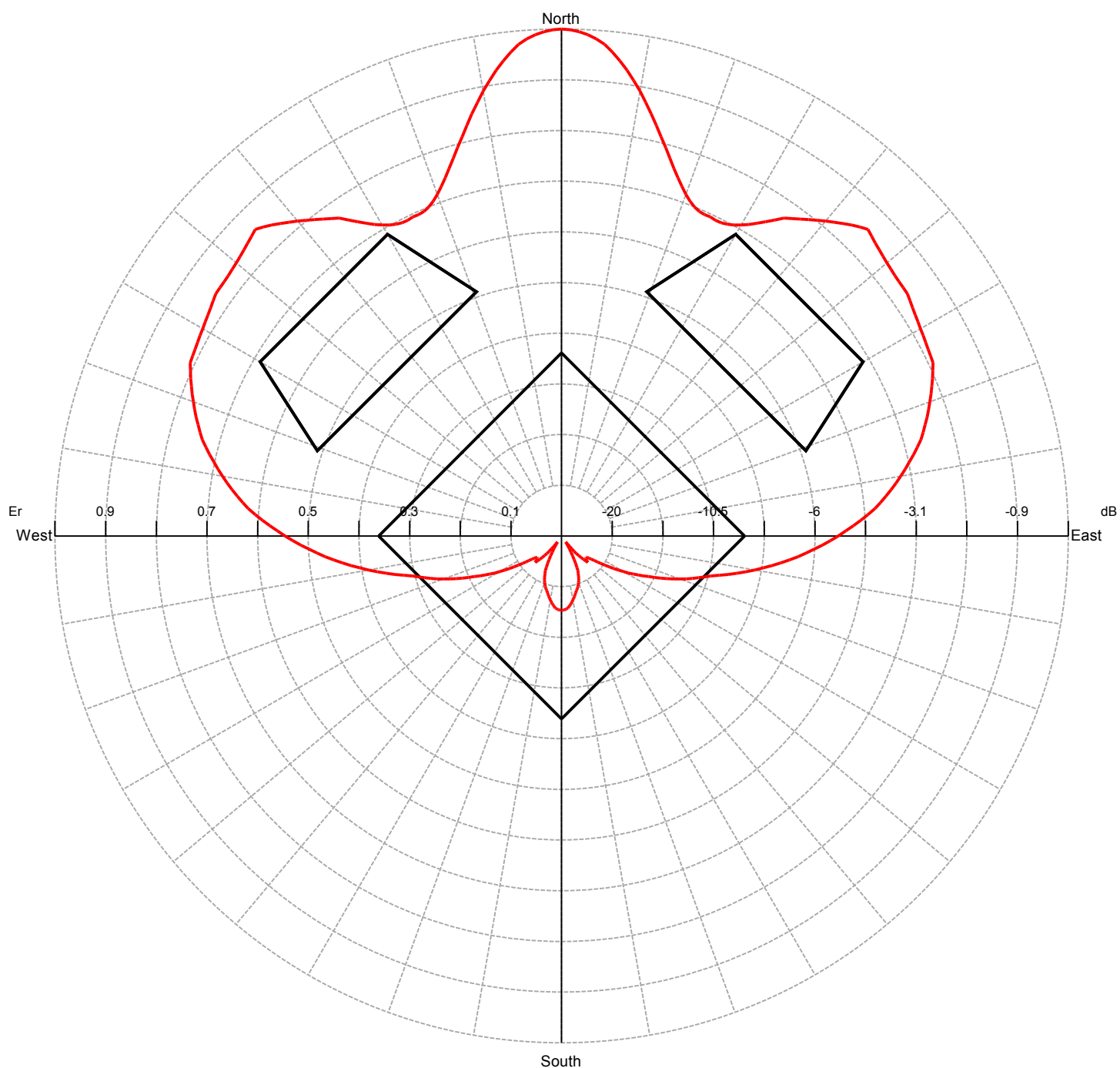
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Horizontal diagram at 0.0° depres. (Total Antenna)



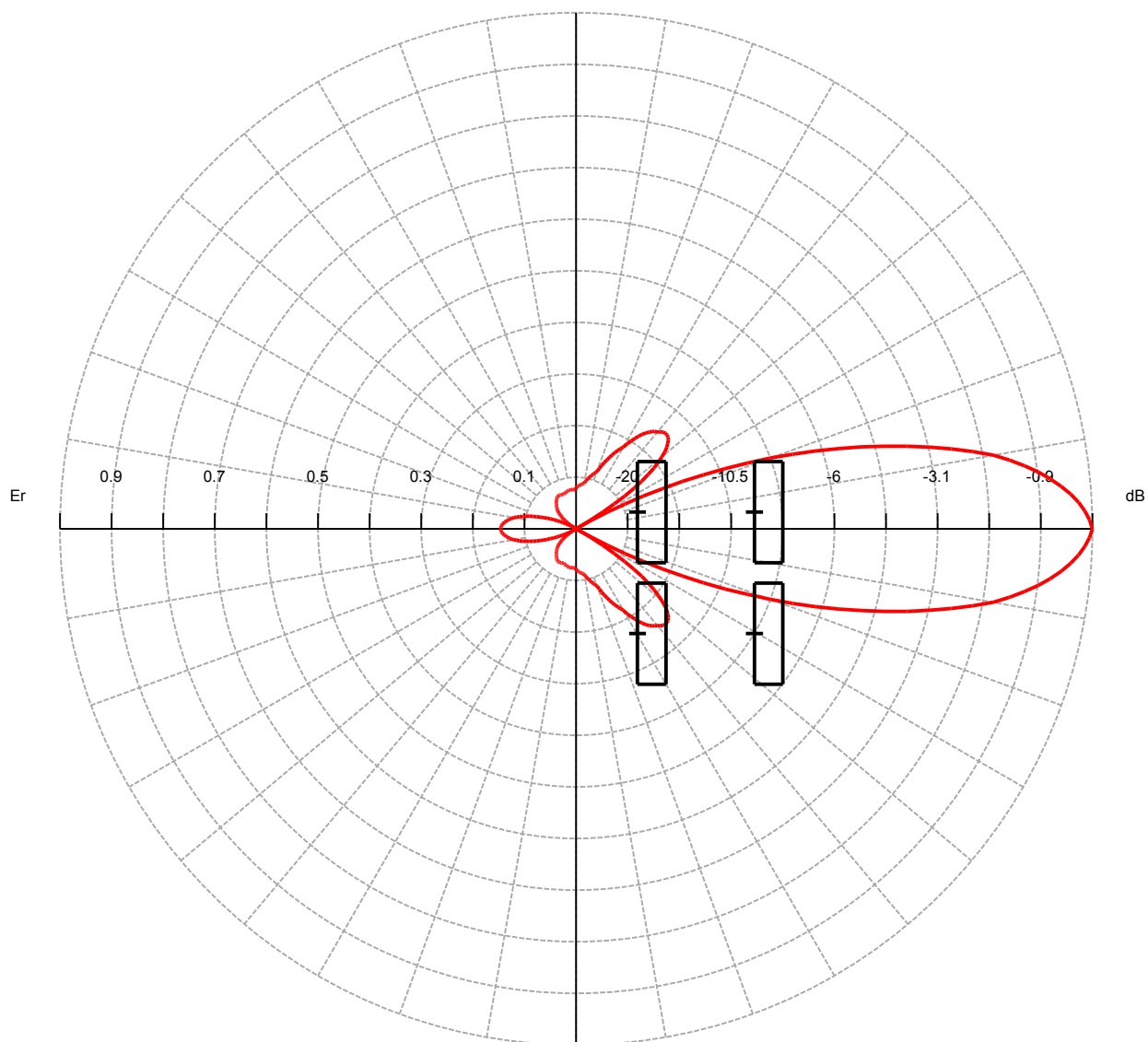
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Vertical diagram at an azimuth of 0.0° degrees



0.0° Az. (Total Antenna), Gain (dBd): 8.71

ERP T.Max(KW): 7.437 ERP E.Max(KW): 7.437